

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) Electroluminescent device comprising:

a first electrode and a second electrode allowing an at least partial passage of light,

at least one layer of organic semiconductor showing an electroluminescence by charge injection,

a supporting substrate consisting of a metal or metallic alloy, and

an electric current source connected to the electrodes in an electrically conductive manner,

said substrate having two opposite surfaces comprising an electrically conductive surface which supports said device and a surface which is electrically insulated from the outside,

the substrate supporting on said electrically conductive surface as successive layers:

the first electrode, which is continuously or alternatively a negative electrode,

said at least one layer of organic semiconductor showing an electroluminescence by charge injection, and

said second electrode allowing an at least partial passage of light, which is continuously or alternately a positive electrode.

Claim 2. (Canceled)

3. (Previously Presented) Device according to claim 1, wherein the metallic alloy is a steel.

4. (Previously Presented) Device according to Claim 1, wherein the substrate is connected to the current source.

5. (Previously Presented) Device according to Claim 4, wherein the substrate forms one of the said two electrodes.

6. (Previously Presented) Device according to Claim 4, wherein the substrate is in electrically conductive contact with one of the said two electrodes and forms a current feed for it.

7. (Previously Presented) Device according to claim 1, wherein the substrate supports one of the said two electrodes, which is connected to the current source.

8. (Previously Presented) Device according to claim 1, wherein the substrate is formed by a steel sheet which has undergone a surface treatment.

9. (Previously Presented) Device according to Claim 8, wherein the substrate which has undergone a surface treatment has superficially in the steel sheet a compound which is a conductor of electricity.

10. (Previously Presented) Device according to Claim 8, wherein the steel sheet has a surface coating which is a conductor of electricity.

11. (Previously Presented) Device according to Claim 10, wherein the surface coating comprises at least one layer of a material selected from the group consisting of zinc, zinc alloyed with aluminium, aluminium, magnesium, calcium, tin and chromium.

12. (Previously Presented) Device according to Claim 10, wherein the surface coating consists of at least one layer of at least one conductive polymer.

13. (Previously Presented) Device according to Claim 12, wherein the said at least one conductive polymer is selected from the group consisting of polyacetylene,

polyaniline, polypyrrole, polythiophene, derivatives thereof and mixtures thereof.

14. (Previously Presented) Device according to claim 8, wherein the substrate is made from steel treated so as to reflect a light emitted from the said at least one layer of organic electroluminescent semiconductor.

15. (Currently Amended) Device according to ~~claim 2~~ claim 1, wherein the second electrode has, opposite the substrate, an encapsulation made from a transparent material impervious to air and water.

16. (Cancelled)

17. (Previously Presented) Electroluminescent device comprising two electrodes between which there is arranged at least one layer of electroluminescent organic semiconductor, and a substrate supporting the said device, as well as an electric current source connected to the electrodes in an electrically conductive manner, characterized in that the substrate consists of a metal or metallic alloy,

wherein the substrate has a first surface on which it supports the said device and a second surface, opposite to said first surface, on which it supports an additional said electroluminescent device.

18. (Previously Presented) Method of manufacturing an electroluminescent device according to claim 1, comprising:

an arrangement of the first electrode, which is continuously or alternatively a negative electrode, on a first surface of the supporting substrate consisting of a metal or metallic alloy,

a deposition of the at least one layer of organic semiconductor showing an electroluminescence by charge injection on the first electrode,

a deposition of the second electrode allowing at least partial passage of light on the at least one layer of organic semiconductor, and which is continuously or alternatively a positive electrode, and

an electrical insulation of a second surface of said substrate.

19. (Previously Presented) Method according to Claim 18, wherein the substrate consists of a steel sheet.

20. (Previously Presented) Method according to claim 19, wherein said arrangement of a first electrode comprises an activation of the steel sheet to make it able to fulfill a role of first electrode, the method comprises an electrical connection between the electrical current source and the steel sheet.

21. (Previously Presented) Method according to claim 18, wherein said arrangement of the first electrode comprises an application of the first electrode to said first surface of the substrate.

22. (Previously Presented) Method according to claim 18, comprising as a first operation, a surface treatment of the substrate.

23. (Previously Presented) Method according to Claim 22, comprising, by way of surface treatment, a surface coating of the substrate by at least one electrically conductive compound.

24. (Previously Presented) Method according to Claim 22, comprising, by way of surface treatment, an enrichment of the substrate, at least on the surface, with an electrically conductive compound.

25. (Original) Method according to claim 18, further comprising a deposition of a transparent material impervious to air and water on the second electrode, so as to encapsulate the device.

Claim 26. (Canceled)

27. (Previously Presented) Electroluminescent device according to claim 17, wherein the substrate forms one of the electrodes for each said at least one layer of electroluminescent organic semi-conductor.

28. (Previously Presented) Device according to claim 17, wherein a first electrode is disposed on a first side of the said at least one layer of electroluminescent organic semiconductor, on a first face thereof which faces the substrate, and in that a second electrode is disposed on a second side of said at least one layer of electroluminescent organic semiconductor, on a second face thereof which is opposite the substrate, this second electrode allowing an at least partial passage of light.

29. (Previously Presented) Device according to claim 17, wherein the metallic alloy is steel.

30. (Previously Presented) Device according to claim 17, wherein the substrate is connected to the current source.

31. (Previously Presented) Device according to Claim 30, wherein the substrate forms one of said two electrodes.

32. (Previously Presented) Device according to Claim 30, wherein the substrate is in electrically conductive contact with one of said two electrodes and provides a current feed thereto.

33. (Previously Presented) Device according to claim 17, wherein the substrate supports one of the said two electrodes, which is connected to the current source.

34. (Previously Presented) Device according to claim 17, wherein the substrate is formed by a surface treated steel sheet.

35. (Previously Presented) Device according to Claim 34, wherein the steel sheet has a surface coating which is a conductor of electricity.

36. (Previously Presented) Device according to Claim 35, wherein said surface coating comprises at least one layer of a material selected from the group consisting of zinc, zinc alloyed with aluminium, aluminium, magnesium, calcium, tin and chromium.

37. (Previously Presented) Device according to Claim 35, wherein the surface coating consists of at least one layer of at least one conductive polymer.

38. (Previously Presented) Device according to Claim 37, wherein said at least one conductive polymer is selected from the group consisting of polyacetylene, polyaniline, polypyrrole, polythiophene, derivatives thereof and mixtures thereof.

39. (Previously Presented) Device according to claim 34, wherein the substrate is made from steel treated so as to reflect light emitted from said at least one layer of organic electroluminescent semiconductor.

40. (Previously Presented) Device according to claim 28, wherein the second electrode has, opposite the substrate, an encapsulation made from a transparent material impervious to air and water.

41. (Previously Presented) Device according to claim 1, wherein said at least one layer of organic semiconductor showing an electroluminescence by charge injection contains electrophosphorescent molecules.

42. (Previously Presented)) Device according to claim 1, wherein the electric current source supplies the device with continuous current.

43. (Previously Presented)) Device according to claim 1, wherein the electric current source supplies the device with alternating current.